

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

A 1.
1. (Currently Amended) A method for performing channel configuration in a ~~cellular radio network for office use~~ micro or pico cell network located in the operating area of a macro cell network, ~~characterized by comprising:~~

(210) selecting as the channel to be tested a logical control channel to be transmitted on the physical channel of a macro cell in the macro cell network,

(215) directing a base station of the ~~cellular radio network for office use~~ micro or pico cell network and terminals within the coverage area of the base stations of the ~~cellular radio network for office use~~ micro or pico cell network to use the channel to be tested,

(220) establishing by remote control a connection between two or more terminals through base stations serving the terminals on the channel being tested and making a measurement report on the quality of the connection,

(232) selecting as the channel to be tested the next control channel of a macro cell of the macro cell network until the control channels of all desired macro cells have been tested,

(235) determining on the basis of the measurement reports the channels whose use guarantees the best range in the ~~cellular radio network for office use~~ micro or pico cell network, and

(245) directing the base stations of the ~~cellular radio network for office use~~ micro or pico cell network to use the channels guaranteeing the best range.

2. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein the macro cell network and the ~~cellular radio network for office use~~ micro or pico cell network are controlled from the same location.

3. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein the macro cell network and the ~~cellular radio network for office use~~ micro or pico cell network are synchronised with each other.

4. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein a BCCH (broadcast control channel) is used as the control channel of the macro cell network.

5. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein office base stations are used as the base stations of the ~~cellular radio network for office use~~ micro or pico cell network.

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6. (Currently Amended) A method as claimed in claim 1, ~~characterized that~~ wherein mobile phones are used as the terminals.

7. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein a threshold value that the connection quality must meet is used in evaluating the quality of the connection.

8. (Currently Amended) A method as claimed in claim 7, ~~characterized in that~~ wherein a bit error ratio is used as the threshold value.

9. (Currently Amended) A method as claimed as in claim 1, ~~characterized in that~~ wherein the terminal controller of the ~~cellular radio network for office use~~ micro or pico cell network, controlling the operation of the terminals, is controlled through a data network connected to the ~~cellular radio network for office use~~ micro or pico cell network.

10. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein the channel configuration of the ~~cellular radio network for office use~~ micro or pico cell network is performed when ~~building~~ configuring the ~~cellular radio network for office use~~ micro or pico cell network.

11. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein the channel configuration of the ~~cellular radio network for office use~~ micro or pico cell network is performed at regular intervals.

12. (Currently Amended) A method as claimed in claim 1, ~~characterized in that~~ wherein the physical channel of a macro cell is a time-slot of a radio frequency, and the logical control channel of the macro cell is directed to be transmitted at its time through each time-slot of said frequency.

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13. (Currently Amended) A cellular radio network comprising one or more macro cell base stations (~~302A to 302G~~), each coverage area being a macro cell (~~102~~) and the macro cells (~~102~~) forming a macro cell network; ~~a cellular radio network for office use~~ micro or pico cell network (~~300~~) operating in the operating area of the macro cell network, which ~~cellular radio network for office use~~ micro or pico cell network comprises at least one base station (~~304A to 304D~~) and at least one terminal (~~406~~) in radio connection with the base station, ~~characterized in that~~ wherein

the cellular radio network also comprises a controller (~~412~~) coordinating the channel configuration, the controller (~~412~~) comprising means for selecting as the channel to be tested a logical control channel to be transmitted on a physical channel of the macro cell (~~102~~), means for directing the base station (~~304A to 304D~~) of the ~~cellular radio network for office use~~ micro or pico cell network (~~300~~) to use the channel to be tested, means for establishing by remote control a connection between two or more terminals (~~406~~) through the base stations (~~304A to 304D~~) serving the terminals (~~406~~) on the channel being tested, means for making a measurement report on the connection quality, means for selecting as the channel to be tested the next control channel of a macro cell (~~102~~) until the control channels of all desired macro cells (~~102~~) have been tested, means for determining on the basis of the measurement reports the channels whose use guarantees the best range in the ~~cellular radio network for office use~~ micro or pico cell network (~~300~~), and means for directing the base stations (~~304A to 304D~~) to use the channels guaranteeing the best range.

14. (Currently Amended) A cellular radio network as claimed in claim 13, ~~characterized in that~~ wherein the cellular radio network comprises a network management system for managing the macro cell network and the ~~cellular radio network for office use~~ micro or pico cell network.

15. (Currently Amended) A cellular radio network as claimed in claim 14,
~~characterized in that~~ wherein the network management system is arranged to synchronise the
cellular radio network and the macro cell network.

16. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the control channel of the macro cell network is a BCCH
(broadcast control channel).

A/ 17. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the base stations of the ~~cellular radio network for office use~~
micro or pico cell network are office base stations.

18. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the terminals are mobile phones.

19. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the controller is arranged to use in evaluating the quality a
threshold value that the connection quality must meet.

20. (Currently Amended) A cellular radio network as claimed in claim 19,
~~characterized in that~~ wherein the controller is arranged to use a bit error ratio as the threshold
value in evaluating the quality of the connection.

21. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the cellular radio network comprises a data network for
transmitting information in the cellular radio network and a terminal controller for controlling
the terminals, and ~~that~~ the controller is arranged to control the terminal controller through the
data network.

22. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the controller comprises means for performing channel
configuration when ~~building~~ configuring the cellular radio network.

23. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the controller comprises means for performing channel
configuration of the cellular radio network at regular intervals.

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24. (Currently Amended) A cellular radio network as claimed in claim 13,
~~characterized in that~~ wherein the physical channel of the macro cell is a time-slot of a radio
frequency, and the logical control channel is directed to be transmitted at its time through
each time-slot of said frequency.
